



**U.S. Environmental  
Protection Agency (EPA)**



## Clean Air Status and Trends Network (CASTNet)

### 2000 Annual Report

Prepared for:



*U.S. Environmental Protection Agency  
Office of Air and Radiation (OAR)  
Research Triangle Park, NC  
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Prepared by:

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# Clean Air Status and Trends Network (CASTNet)

## 2000 Annual Report

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## List of Acronyms & Abbreviations

ARS	Air Resource Specialists, Inc.
As	arsenic
Be	beryllium
°C	degrees Celsius
Ca <sup>2+</sup>	particulate calcium ion
CAAA	Clean Air Act Amendments
CAPMoN	Canadian Air and Precipitation Monitoring Network
CASTNet	Clean Air Status and Trends Network
Cd	cadmium
CFR	Code of Federal Regulations
CLASS™	Chemical Laboratory Analysis and Scheduling System
cm/sec	centimeters per second
Co	cobalt
Cr	chromium
CVS	continuing verification samples
DQI	data quality indicator
EPA	U.S. Environmental Protection Agency
HAP	Hazardous Air Pollutants
Harding ESE	Harding ESE, Inc.
Hg	mercury
HNO <sub>3</sub>	nitric acid
IC	ion chromatography
ICAP-AE	inductively coupled argon plasma – atomic emission
K <sup>+</sup>	particulate potassium ion
K <sub>2</sub> CO <sub>3</sub>	potassium carbonate
kg/ha	kilograms per hectare
km	kilometer
LAI	leaf area index
Lpm	liters per minute
m	meter
MARPD	mean absolute relative percent difference
MFC	mass flow controller
Mg <sup>2+</sup>	particulate magnesium ion
MLM	Multi-Layer Model
mm	millimeter
Mn	manganese
N	nitrogen
Na <sup>+</sup>	particulate sodium ion
NAAQS	National Ambient Air Quality Standard
NADP/NTN	National Atmospheric Deposition Program/National Trends Network

## List of Acronyms & Abbreviations (continued)

NDDN	National Dry Deposition Network
NEI	National Emission Inventory
ng/m <sup>3</sup>	nanograms per cubic meter
NH <sub>4</sub> <sup>+</sup>	particulate ammonium
Ni	nickel
NIST	National Institute of Standards and Technology
NO <sub>3</sub> <sup>-</sup>	particulate nitrate
NO <sub>x</sub>	nitrogen oxides
NPS	National Park Service
O <sub>3</sub>	ozone
Pb	lead
PM <sub>2.5</sub>	mass of particles with a mean diameter of less than 2.5 μm
ppb	parts per billion
ppm-hr	parts per million-hours
QA	quality assurance
QAPP	Quality Assurance Project Plan
R <sub>a</sub>	aerodynamic resistance
R <sub>b</sub>	boundary layer resistance
R <sub>c</sub>	canopy or surface uptake resistance
Sb	antimony
Se	selenium
SLAMS	State and Local Monitoring Stations
SO <sub>4</sub> <sup>2-</sup>	particulate sulfate
SO <sub>2</sub>	sulfur dioxide
TOA	thermal optical analysis
USGS	U.S. Geological Survey
μg/m <sup>3</sup>	micrograms per cubic meter
UV	ultraviolet
V <sub>d</sub>	deposition velocities
Watts/m <sup>2</sup>	watts per square meter
XRF	X-ray florescence